

ABSTRACT

A SAW element of the present invention includes a plurality of inter-digital transducer (IDT) electrodes on a piezoelectric substrate, grating reflector electrodes disposed on the sides of the IDT electrodes, and a plurality of pad electrodes led from the IDT electrodes and the grating reflector electrodes. A plurality of the pad electrodes includes isolated pad electrodes not directly opposed to the outer periphery of the SAW element, and adjacent pad electrodes directly opposed to the outer periphery thereof. A connecting electrode between the isolated pad electrode and the adjacent pad electrode is removed by etching at least before dicing in order to prevent discharge from occurring due to pyroelectricity, and to prevent the electrodes from being damaged.